

Amendments to the Claims:

D 124. (twice amended) A medical prosthesis for use within a body, said prosthesis being formed of radiation treated ultra high molecular weight polyethylene having cross-links and multiple melting peaks, wherein the multiple melting peaks~~are~~ are a result of irradiation-generated heat,~~7~~ thereby reducing crystallinity of the ultra high molecular weight polyethylene.

D 2 132. (once amended) Radiation treated ultra high molecular weight polyethylene having multiple melting peaks and cross-links, wherein the multiple melting peaks are a result of irradiation-generated heat, thereby reducing crystallinity of the ultra high molecular weight polyethylene.

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124. (twice amended) A medical prosthesis for use within a body, said prosthesis being formed of radiation treated ultra high molecular weight polyethylene having cross-links and multiple melting peaks, wherein the multiple melting peaks are a result of irradiation-generated heat, thereby reducing crystallinity of the ultra high molecular weight polyethylene.

132. (once amended) Radiation treated ultra high molecular weight polyethylene having multiple melting peaks and cross-links, wherein the multiple melting peaks are a result of irradiation-generated heat, thereby reducing crystallinity of the ultra high molecular weight polyethylene.